

Algebra 2
PRACTICE WITH COMPOSITION!

Combining and Evaluating - Mixed Practice:		$f(x) = -3x + 4$	$g(x) = 1 - 5x$
$f(-5) =$	$f(x + 2) =$		
$(g + f)(x)$	$(f - g)(x)$		
$(f \cdot g)(x)$			
Round I – Composition with Evaluation:		$f(x) = x^2 - 2x + 3$	$g(x) = 4x - 2$
$f(g(3)) =$	$g(f(-2)) =$		

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"Constant" function

Round 2 – Working with constant functions:

$$f(x) = x^2 - 2x + 3$$

$$g(x) = 8$$

$$f(g(x)) =$$

$$(g \circ f)(x) =$$

Round 3 :

$$f(x) = -2x + 3$$

$$g(x) = x^2 - 1$$

$$h(x) = 7$$

$$f(g(x)) =$$

$$g(f(x)) =$$

$$(g \circ h)(x) =$$

$$h(g(x)) =$$

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Round 4: $f(x) = x^2 - 3x - 1$ $g(x) = 5x + 2$ $h(x) = 3x$	
$h(f(x)) =$	$g(f(-3)) =$
$f(h(x)) =$	$(f \circ g)(x) =$

Round 5: $f(x) = x^3$ $g(x) = 3 - x$ $h(x) = 3 - 4x^2$	
$g(g(x)) =$	$(h \circ f)(x) =$
$h(g(-2)) =$	$g(h(x)) =$

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Round 6:		$f(x) = -5$	$g(x) = -2x^2 - x$	$h(x) = 10 - 3x$
$g(f(x)) =$		$(f \circ g)(x) =$		
$(g \circ h)(3) =$		$h(g(x)) =$		
$g(h(x)) =$		$h(h(f(x))) =$		

Progress Checker

Round	Completed!	Round	Completed!	Round	Completed!
1		3		5	
2		4		6	

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Algebra 2 - Homework (Prep for Quiz!)

$$f(x) = 7 - 2x$$

$$g(x) = 5x^2 - x$$

$$h(x) = x^2 - 3x + 4$$

$$h(f(-2)) =$$

$$(h - f)(x) =$$

$$(g + h)(x) =$$

$$\left(\frac{h}{f}\right)(x) =$$

$$(f \circ h)(x) =$$

$$(f \cdot g)(x) =$$

$$f(g(x)) =$$

$$(g - f)(x) =$$